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Gene complementation in the T lymphocyte proliferative response to poly (Glu57Lys38Tyr5): evidence for effects of polymer handling and gene TI

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J. Immunol. (1979 ), 123(1), 272-8 SO CODEN: JOIMA3; ISSN: 0022-1767

Journal DT

English LA

The difficulties encountered in demonstrating Ir gene complementation in AB the immune response to the synthetic terpolymer poly(Glu57Lys38Tyr5) (GLT5) were investigated. The method by which the polymer was put into soln. influenced the outcome because some determinants on GLT5 were sensitive to exposure to alk. conditions. dose of antigen used for immunization was crit. since mice of the H2q haplotype failed to respond to low doses of GLT5. Prolonged storage of dialyzed and lyophilized G1T5 led to alterations in the soly. properties of the polymer with consequent loss of some of the antigenic determinants. Differences in the genetic make up of the responding strains affected the overall response. Each responder haplotype recognized different determinants on the polymer, or the same determinant in different ways,

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Serial No.: 09/816,989 Filed: March 23, 2001

Exhibit 38



such that variations in polymer handling appeared to influence selectively the immunogenicity and antigenicity of GLT5 for each strain. Furthermore, the crit. (B10 .times. B10.A)F1 strain, whose response was required to demonstrate conclusively complementation, failed to respond well to certain altered prepns. of the polymer in which the determinants being recognized were present in low concn. This failure, in contrast to the high responsiveness of the genetically similar B10.A(5R) strain, was shown by the low response of [B10.A(4R) .times. B10.A(5R)] F1 mice to result from a gene dosage effect. However, under optimal conditions of antigen handling, (B10 .times. B10.A) F1 mice did respond well to GLT5, demonstrating that 2 complementing Ir genes are involved in the recognition of certain determinants on this polymer.